Math Problem

To solve for f(-2 - g(3)) , we first need to compute g(3) .

1. Calculate g(3) :

$$g(x) = x^2 - 3$$

So,

$$g(3) = 3^2 - 3 = 9 - 3 = 6$$

2. Now, substitute g(3) into -2 - g(3) :

$$-2 - g(3) = -2 - 6 = -8$$

3. Next, calculate f(-8) :

$$f(x) = \frac{3}{4}x + 10$$

So,

$$f(-8) = \frac{3}{4}(-8) + 10 = -6 + 10 = 4$$

Thus, the value of f(-2 - g(3)) is \boxed{4} .